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 There were 12 telephone centrals in Riga located as follows and each with the number of engineers shown:

District I	Main Central Office at Audeju Hela #15	12 engineers
District II	Krisjan Barova and Matias Iela	5 engineers
District III	Berica Tela (post office)	2 engineers
District IV	Dzirnavi and Hanzas Iela (post office)	l engineer
District V	Brtvibas Gatve (post office)	1 ergineer
District VI	Mewa Parks Koknes Prospekta (post office)	2 engineers
District VII	Sarkandaugava-Duntes Iela and Tiltu Iela	l engineer
District VIII	Vectorigravi-Vectoligravju lela (post office)	l engineer
District IX	Ilgeciem Lilijas Tela (post office)	l engineer
District X	Bolderaja (post office)	1 engineer
District XI	Majori-Rigas Jurmala (post office)	1 engineer
District XII	Kemeri-Rigas Jurmala (sapatorium)	l engineer

- 4. Following were the main government and private switchboards:
  - (I) Pile Castle-Ministry of Deferme

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- (2) Ministry Kabinets un Arlietu Ministrija Cabinet Ministry and Ministry for Foreign Affairs - located on Valdemars Iela near the officers club.
- (3) Jekelieta Ministrija Ministry of Mome Affairs located on Brivibas Tela #37/39.
- (4) Kara Ministrija War Office Valdemara Tela 10/12
- (5) Zemkoptbas Ministrija Ministry of Agriculture located on the corner of Kalpaks Bulveri and Reimera Iela.
- (5) Finance Ministrija Ministry of Finance located on Valdemaras Kela.
- (7) Latvijas Banka The National Bank located on Valdemaras Iela and Pils Laukums Aspazijas Bulvari.
- (8) Micel Ministrije un Sensts Ministry of Courts and Senste located on Elizabetee Tela and Evivine Bolvari.
- (9) Satisames Ministria Ministry of Communications located in the Railway Administration Building on Soguia Rela.
- (10) Valsta Montrole General Accounting Office located on the corner of Valdemaras lels and Alcasing lels.
- (iii) Pilseiss Valde City Hall located at #5 Kenimu Iela.
- (12) Prefekture Prefecture located at the main Post Office on Azpasijas Bulvari. This was destroyed in 1945.
- (13) Aprinks Prieksnicks District Department located on the corner of Skolas Iela and Stabu Iela.
- (14) Signs Mutaica Customs Department Valdemaras Iela Pie Daugavas.
- (15) Valous Zemes Rauks State Agricultural Bank located on the corner of Valotzmaras Tela and Citadeles lela.
- (16) Universitate University loyated between Kelpaka Bulwari and Rains Bulwari.
- (17) Mactorala Opera Mational Opera Located on Azpazijas Bulsari and Toatea Fela, a city building under the Riga Department of Culture.
- (18) becomes a Teatre National Theatre located on Valdemars Tela and Zigfrid Melroyie Balvari, a city building under the Riga Department of Culture.
- (19) Romas Viesnica Hotel de Rome located on Appazijas Bulvari and Toures Jels. Destroyed in 1945.
- (20) I Pilsets: Slimmics Ist Town Hospital located on the corner of Veldemers Isls and Alexange Isls.
- (91) IV Princias Shimura Tind Town Forpital located on Zasukuka and Maza Nometon Iela.
- (cm) Mara Shimnica Michigan Mospital Accuted on Hospital Iela Pie Meta-Parka.

CONFIDENTIAL

## COMPTIBENCEAL

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- (23) Rigge Pilsetes Uzuemusa Nodals Rigge Filsetes Valdane Eigfrid Meirovica Bulvari #10 Gity Hall for Electrical, Water, Cas, Engineering and Architects Offices.
- (24) Kara Aprinsa Prieksnieks District War Office located at Valdemara Iela and Pils Laukums on the Daugava River.
- (25) Jurnicolbas Departments Gitadelle Navigation Department located at Valdemara Iela and Pils Laukums, opposite the National Bank.
- (26) Imbalajibas Ministrija Ministry of Welfare located on Skolas Iela and Stabu Iela.
- (27) Kava Pabrika Latvijas Valsts Military Arsenal Zasulauka at II Town Hospital.
- (28) Berau Slimnica Jelgavas Soseja Childrens Hospital.
- (29) Fabrika "Vairoks" Mechanical Factory located at Brivibas Gatve at Bikernicku Iela.
- (30) Fabrika "Verfs" The Verts Factory located on Brivibas Gatue at Erroume Tels.
- (31) Gumijas Fabrika "Kwadrate" Kwadrats Rubber Fabrication Factory located at Latgules Jer Maskayes Leis Pie Kenguraga.
- (32) Rigas Pilsetas Gases Pabrika Riga Gas Factory located at Valmieras Tels Pie Wagomu Iela.
- (33) Rigas Filsetas Galvens Udens Piegade Balt-Esera Fabrika Stacija Riga Water Department - located at Zigfrid Medrovica Bulvari #10.
- (34) Central Cietum Central Prison located at the Matisa Church Graveyard.
- (35) Interin Prison No 2 for Women and Men located at the Military Hospital.
- (36) Tran Depot on Relyibas Tels across from main churchyard City Engineering Department of Communication all city motor vehicles garaged here.
- (37) Elgenieus Stikla Fabrice Glass Factory located in Elgenieus at Daugavgrivas Iela near sirámose.
- (38) Tigection Coment Fabrike Coment Factory located in Higecian mean the airdrone and the Laugava River.
- (39) Rigs , Railway Station MEVD Telephone Center located on the second floor of the station.
- (40) Jossen Porcels: Fabrica Jessen Porcelsin Factory Located in Milgravi. Netaln - not far from the railroad station.
- (41) Debrico Elia Fabrika 001 refinery located in Milgravi on the Daugava River mean the radirest station.
- (42) Minufaktures Fabriks Feldhun Manufacturing Company located at Zasulauka at the Mordiki Railway Station.
- (43) Armijas Shommalakais Veikals Military Economics Office located on the corner of Valum Reis and Audeju Rela across from the main telephone central.
- (44) Provednik Fabrika Gumijas Izstradajums Provednik Rubber Factory Cocated at the bridge over Sarkandaugava at Tilta Iela.
- (45) Reviamente Parliament Located at Jekaba Iela Pie Jekaba Baznicas (Jekaba Church)
- (46) Zasulaukas Manufaktura Fabrika Zasulaukus Manufacturing Company hocated at the Zasulauks Railway Station.
- 100ated at the Zamulauks Hallway Station.
  (47) Motorikla Fabrika "Encupreis" the Eventure Motorcycle Factory -
- located on Brivitas lels at the vinduct near the tran-depot.

  (46) Mangaigala Cietums Military only. Twelve military lines, partly under-
- ground, partly serial.
  (49) Citable military only Docared across the river from Mangaissis.
- (50) Scapbuilding plant at Milgravia
- (51) Military area (tank and armoured division) south of sirdrome.
- (52) Midrit Sale State radio station
- 5. The Latvian telephone net was very good, all communities of importance and all post office and mailroad station towns having telephone service. The usumated technical repactty of central offices was five hundred thousand telephones.

  However, there were only two hundred thousand subscribers (approximately) up to 1944. All was wanted service could be accommodated.

CONTINUENTIAL

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## COMPIDENTIAL

-4-

- 6. The telephone system employed excellent engineers and technicians. The central city of Riga was divided into six main telephone districts plus the suburban districts. Each main district had about 60 permanent technicians. During the summer months (when most of the maintenance and repair work took place) this number was raised to three hundred for each district. Starting in April of each year, work got underway on installing new lines, replacing needed poles, checking all cables, checking and making necessary changes on all switchboards, digging new tunnels and installing new underground cables. All main repair jobs were planned ahead in order to provide the necessary time needed for requisitions of material to be filled. This material was both domestic and foreign. All requisitions had to be channeled through the Ministry of Communications during the winter months. A deadline was always set for delivery.
- 7. The equipment was adequate and of good quality. Foreign equipment came from AEG and Schukert companies in Germany

The Latvian manufacturing plant VERT (Valsts Electrotechnisks Fabriks - VEF) in Rigs supplied equipment on order. In 1935 the government started a plan to replace all equipment possible with that made by VERT. Most switch-boards and telephone sets were replaced by VERT equipment except for some in private concerns. VERT also made much of the cable used although those of a size 200 X 2 and larger were imported from Czechoslovakia for it was found that the Czech cable was best for underground installation. 500 X 2 was the largest size cable used. Whenever foreign equipment was purchased, foreign technicians were invited to supervise the installation.

25X1

25X1

25X1

8. The main, underground cables had from one thousand to two thousand separate telephone wires. Each wire was rubber insulated and was colored red, white or blue for identification. The whole cable was encased in lead about five mm thick. Originally the cables were encased in concrete sections as follows:

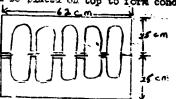


This style was abandoned and the following method of installation was adopted. Concrete forms one metar in length and 62 on wide were made to accommodate five cables in such a fashion:



A similar section would be placed on top to form conduits

25X1



If more than five cables were to be laid these sections would be placed on top of one another.

9. I have drawn a sketch (Sketch #11) of a street profile showing the telephone cables as well as electric power cables, one on each side of the street, a system adhered to throughout the city. This particular sketch (#11) shows the man holes of each type of cable-canal.

COMPLEMENTAL

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## COLF IDENTIAL

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- 10. Sketch #12 is a street corner profile which shows a typical 5, 10 and 15 cable installation. As can be seen, the concrete, sectional canals are laid 85 cm under the payment. Sketch #13 reflects the cable system of the city of Riga as it existed in 1944. Solid green lines indicate underground cable, the broken green lines the aerial cables. In Sketch #14 I have shown the cable system at the corner of Piesstatnes and Tvaiku Ielas where it leads off to the west to the radio station at Kundzin Sala and the fashion in which it is laid under the river. After Eudzin Sala cut off, the cable continues on to District VIII of Vecnilgravi where it becomes aerial rather than underground. In Sketch #15 are shown the Cable Posts I and II from which the telephone wires lead off aerially to the subscriber.
- 11. Telephone poles used were usually pine impregnated with creosote. They measured 12 meters above ground and 2½ meters underground, with the underground portion charred to prevent rot. The tops of the poles were capped with tim. Poles were spaced about 20 meters apart. The number of cross arms depended upon the number of wires. The wires were spaced about 15 cm apart and were fastened on demestic porcelain insulators of the screw type. Cross arms were bolted to the pole and supported by a ½-inch steel band. Wooden braces supported the pole on the lesward side or else they were anchored by a cable. Splices were covered by aluminum cartridges or sleeves. Individual wires were bare. Where the poles carried cable, the cable was insulated with aluminum or some light metal and covered with a tar treated fabric. Distribution boxes were installed on poles where necessary. Telsphone poles did not share space with any other service and were for telsphone wires only. In Sketch \$16 I have shown the method of lead off from street canalization to subscriber.

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